Fujitsu recommends Windows.

# Data Sheet
# FUJITSU ESPRIMO Q920
# Desktop PC

The Mini with More PC per cm³

The FUJITSU ESPRIMO Q920 delivers excellent performance, high energy efficiency and manageability in a mini PC. The Intel® Core™ processor and Intel® vPro™ technology support professional computing and sophisticated manageability, while the Low Power Active Mode provides businesses with a wide range of new usage scenarios like telephony and video conferencing. Enjoy a cleaner, quieter workplace with Zero Noise functionality and the small footprint of the FUJITSU ESPRIMO Q920.

**An elegant mini PC for the modern office environment**
Eye-catcher on your desk with a modern and exclusive design
- Fully equipped PC with a volume of ~2.0 liters - based on standard desktop technology

**Always available office PC**
Provides businesses with a wide range of new usage scenarios like telephony and video conferencing
- Combines availability with energy saving. The PC looks like it is off but background application tasks can still run in the Low Power Active Mode

**Unleash the power**
Latest Intel® technology to support your challenging business applications
- 4th generation Intel® Core™ processor family

**Sophisticated system management**
Simple system administration in complex IT infrastructures
- Intel® vPro™ technology (depending on processor) and DeskView manageability suite

**Superb usability**
Pleasant working environment due to a tidy desk
- Horizontal or vertical operations and an integrated VESA mount, service door for easy upgrade of major components

intel inside CORE i7 vPro

reddot design award winner 2012

# Components

| | |
|---|---|
| **Processor** | Intel® Core™ i7-4785T processor (4 Cores / 8 Threads, 2.20 GHz, up to 3.2 GHz, 8 MB, Intel® HD Graphics 4600) * |
| | Intel® Core™ i5-4590T processor (4 Cores / 4 Threads, 2.00 GHz, up to 3.0 GHz, 6 MB, Intel® HD Graphics 4600) * |
| | Intel® Core™ i3-4160T processor (2 Cores / 4 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics 4400) |
| | Intel® Pentium® processor G3250T (2 Cores / 2 Threads, 2.80 GHz, 3 MB, Intel® HD Graphics) |
| | Intel® vPro™ Logo with Intel® Core i5 and Core i7 processors<br>*with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables) |
| **Operating systems** | |
| **Operating system** | Windows 8.1<br>Windows 8.1 Pro<br>Windows 7 Professional 64-bit<br>Windows 7 Professional 32-bit |
| **Memory modules** | 2 GB (1 module(s) 2 GB) DDR3, non-ECC, 1,600 MHz, PC3-12800, SO DIMM |
| | 4 GB (1 module(s) 4 GB) DDR3, non-ECC, 1,600 MHz, PC3-12800, SO DIMM |
| | 8 GB (1 module(s) 8 GB) DDR3, non-ECC, 1,600 MHz, PC3-12800, SO DIMM |
| **Hard disk notes** | Up to 20 GB of HDD space is reserved for system recovery<br>SSHD (Solid State Hard Disk, Hybrid drive)<br>SSD (Solid State Disk)<br>SED (Self-Encrypting Drive) |
| **Hard disk drives (internal)** | SSHD SATA III, 5,400 rpm, 500 GB, 2.5-inch |
| | SSD SATA III Premium, 512 GB, 2.5-inch |
| | SSD SATA III Premium, 256 GB, 2.5-inch |
| | SSD SATA III Premium, 128 GB, 2.5-inch |
| | SSD SATA III, 256 GB, 2.5-inch, SED |
| | SSD SATA III, 256 GB, 2.5-inch |
| | SSD SATA III, 128 GB, 2.5-inch, SED |
| | SSD SATA III, 128 GB, 2.5-inch |
| | HDD SATA III, 7,200 rpm, 500 GB, 2.5-inch |
| | HDD SATA III, 7,200 rpm, 320 GB, 2.5-inch |
| | HDD SATA III, 5,400 rpm, 320 GB, 2.5-inch |
| | HDD SATA II, 5,400 rpm, 1,000 GB, 2.5-inch* |
| | HDD SATA II, 5,400 rpm, 750 GB, 2.5-inch* |
| | HDD SATA II, 5,400 rpm, 500 GB, 2.5-inch* |
| | HDD SATA II, 5,400 rpm, 320 GB, 2.5-inch* |
| **Graphics** | DP to DVI-D (single link) Adapter Cable |
| **Drives (optional)** | BD Triple Writer SATA Slot-in slim |
| | DVD Super Multi Slot-in slim |
| **Interface add on cards/components (optional)** | |
| | WLAN 802.11 a/g/n (2x2) and Bluetooth (dedicated regions only, not for Indonesia) |

# Base unit

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|---|---|
| **Base unit** | ESPRIMO Q920 |

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|---|---|
| **Mainboard** | |
| Mainboard type | D3233 |
| Formfactor | proprietary |
| Chipset | Intel® Q87 |
| Processor socket | LGA 1150 |
| Processor quantity maximum | 1 |
| Memory slots | 2 SO DIMM (DDR3, 1600 MHz) |
| Supported capacity RAM (max.) | 16 GB |
| Memory frequency | 1,600 MHz |
| Memory notes | Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same |
| LAN | 10/100/1,000 MBit/s Intel® I217LM |
| Integrated WLAN | 1 (optional with Bluetooth together) |
| BIOS version | AMI Aptio 4.6 |
| BIOS features | BIOS Flash EPROM update by software<br>Recovery BIOS<br>Unified Extensible Firmware Interface (UEFI) |
| Audio type | On board |
| Audio codec | Realtek ALC671 |
| Audio features | Buzzer |
| **I/O controller on board** | |
| Serial ATA total | 2 |
| thereof SATA III | 2 |
| Controller functions | Serial ATA II (3 Gbit)<br>Serial ATA III (6 Gbit)<br>NCQ<br>AHCI |
| **Interfaces** | |
| Audio: line-out / headphone | 1 |
| Audio: line-in / microphone | 1 |
| USB 2.0 total | 2 |
| USB 3.0 total | 4 |
| USB front | 2x 3.0 |
| USB rear | 2x 2.0 and 2x 3.0 |
| VGA | 1 (via DVI to VGA adapter, part of shipment) |
| DisplayPort | 1 |
| DVI | 1 (DVI-I) |
| Ethernet (RJ-45) | 1 |
| Multicardreader | 1 (SD, MMC) |
| Interface Module notes | Anytime USB charge functionality |
| **Input device / components** | |
| | Optical USB wheel mouse |
| Input devices (optional) | KBPC PX ECO<br>Mouse M440 ECO |
| **Drive bays** | |
| Drive bays total | 3 |
| 2.5-inch internal bays | 1 |
| 5.25-inch external bays | 1 |
| Drive bay notes | slim slot-in for 5.25"; mSATA connector internal |
| **Graphics on board** | |
| Graphics brand name | Intel® HD Graphics, HD Graphics 4400, HD Graphics 4600 (depending on processor) |
| Shared video memory | up to 1,782 MB |

| | |
|---|---|
| **Graphics on board** | |
| **TFT resolution (VGA)** | 1,024 x 768 pixel<br>1,280 x 1,024 pixel<br>1,360 x 768 pixel<br>1,440 x 900 pixel<br>1,600 x 900 pixel<br>1,600 x 1,200 pixel<br>1,680 x 1,050 pixel<br>1,920 x 1,080 pixel |
| **TFT resolution (DVI)** | 1,280 x 1,024 pixel<br>1,360 x 768 pixel<br>1,440 x 900 pixel<br>1,600 x 900 pixel<br>1,680 x 1,050 pixel<br>1,920 x 1,080 pixel<br>1,920 x 1,200 pixel |
| **TFT resolution (DisplayPort)** | 1,280 x 1,024 pixel<br>1,360 x 768 pixel<br>1,440 x 900 pixel<br>1,600 x 900 pixel<br>1,680 x 1,050 pixel<br>1,920 x 1,080 pixel<br>1,920 x 1,200 pixel<br>2,560 x 1,440 pixel<br>2,560 x 1,600 pixel<br>3,840 x 2,160 pixel (requires Intel® Core™ i3, i5 or i7 processor) |
| **Graphics features** | Dual display support<br>DirectX® 11.1<br>HDCP support<br>Open CL® 1.2<br>OpenGL® 4.0<br>One DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter |
| **Graphics notes** | up to 1 GB dedicated video memory (main memory owned and locked for graphics use)<br>Tested resolutions, depending on display type additional resolutions and frequencies possible<br>Shared memory depending on main memory size and operating system<br>Resolution (color depth up to 32 Bit/pixel)<br>For TFT we recommend using 60Hz |
| **Electrical values** | |
| **Power efficiency note** | power supply efficiency (at 115V/230V; 10% / 20% / 50% / 100% load) : 83% / 87% / 90% / 88% |
| **Rated voltage range** | 100 V - 240 V |
| **Rated frequency range** | 50 Hz - 60 Hz |
| **Operating voltage range** | 90 V - 264 V |
| **Operating line frequency range** | 47 Hz - 63 Hz |
| **Max. output of single power supply** | 65 W (integrated in system) |
| **Power factor correction/active power** | No (meets input harmonic current according EN61000-3-2) |
| **Monitor outlet** | No |
| **Power consumption** | |
| **Power consumption note** | See white paper Energy Consumption |
| **Link to Energy White Paper** | http://docs.ts.fujitsu.com/dl.aspx?id=0e991a83-7203-40df-bcba-ef37905d791f |
| **Heat dissipation** | |
| **Heat dissipation notes** | See white paper Energy Consumption |
| **Noise emission** | |
| **Related Processors for noise** | Intel® Core™ i5 4570T |
| **Standard noise emission** | 2x2 GB, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74 |
| **Standard noise notes / description** | A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) |
| **Standard noise operation mode: HDD load** | 3.0 B / 17 dB(A) Bystander ; 17 dB(A) Operator position |

| Noise emission | |
|---|---|
| **Standard noise operation mode: Idle mode** | SSD: no noise emmision, 2.5" HDD: 3.0 B / 17 dB(A) Bystander ; 17 dB(A) Operator position |
| **Standard noise operation mode: ODD load** | 4.5 B / 31 dB(A) Bystander ; 34 dB(A) Operator position |
| **Standard noise operation mode: Office applications 2.0** | SSD: no noise emmision, 2.5" HDD: 3.0 B / 17 dB(A) Bystander ; 17 dB(A) Operator position |
| **Blue angel noise emission according certification** | According to ISO 7779:2010, ECMA-74<br>for max. possible configuration |
| **Blue angel noise notes / description** | A-weighted sound power level Lwad (in B); 1B = 10dB |
| **Blue angel noise operation mode: HDD load** | 3.1 B = 31 dB |
| **Blue angel noise operation mode: Idle mode** | 3.1 B = 31 dB |
| **Blue angel noise operation mode: ODD load** | 4.7 B = 47 dB |

| Dimensions / Weight / Environmental | |
|---|---|
| **Dimensions (W x D x H)** | 185 x 191 x 58.7 mm |
| | 7.28 x 7.52 x 2.31 inch |
| **Operating position** | Vertical / horizontal (no feet needed) |
| **VESA mount** | integrated (100mm), applicable for selected monitors only, additional mounting kit for specific monitors optional |
| **Weight** | 1.6 kg |
| **Weight (lbs)** | 3.53 lbs |
| **Weight notes** | Weight may vary depending on actual configuration (without ODD) |
| **Operating ambient temperature** | 10 - 35 °C (50 - 95 °F) |
| **Operating relative humidity** | 5 - 85 % (relative humidity) |

| Compliance | |
|---|---|
| **Product** | ESPRIMO Q920 |
| **Model** | MPC2 |
| **Germany** | TÜV GS |
| **Europe** | CE |
| **USA/Canada** | FCC Class B<br>cCSAus |
| **Global** | RoHS (Restriction of hazardous substances)<br>WEEE (Waste electrical and electronic equipment)<br>Microsoft Operating Systems (HCT / HCL entry / WHQL)<br>EPEAT® Gold (dedicated regions)<br>ENERGY STAR® 6.0 (dedicated regions) |
| **Compliance notes** | This product is free of poly®vinyl chloride (PVC) when ordered with the optional PVC free power cord |
| **Compliance link** | http://globalsp.ts.fujitsu.com/sites/certificates |

| Additional Software | |
|---|---|
| **Additional software (preinstalled)** | Workplace Protect (secure authentication solution)<br>Adobe® Reader® (pdf reader)<br>McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version)<br>Win7: Fujitsu Recovery (hard disk based recovery)<br>Win8: Microsoft Push Button Recovery (hard disk based recovery)<br>Microsoft Office (buy license to activate the pre-installed Microsoft Office) |
| **Additional software (optional)** | Recovery DVD for Windows®<br>Drivers & Utilities DVD (DUDVD)<br>CyberLink PowerDVD BD (playback software for Blu-ray Disc™)<br>CyberLink PowerDVD DVD (playback software for DVD)<br>Nero Essentials XL |

| | |
|---|---|
| **Manageability** | |
| **Manageability technology** | DeskUpdate Driver management<br>PXE 2.1 Boot code<br>Wake up from S5 (off mode)<br>Intrusion switch (optional)<br>iAMT 9.0 (depending on CPU)<br>WoL (Wake on LAN) |
| **Manageability software** | DeskView Client<br>DeskView Instant BIOS Management |
| **DeskView components** | Inventory Management<br>BIOS Management<br>Driver Management<br>Security Management<br>Alarm Management |
| **Supported standards** | DMI<br>PXE<br>WMI |
| **Manageability link** | http://www.fujitsu.com/fts/manageability |
| **Security** | |
| **Physical Security** | Kensington Lock support<br>Intrusion switch (optional)<br>Housing Lock Plate (to use with Kensington lock) |
| **System and BIOS Security** | EraseDisk (optional)<br>Boot sector virus protection<br>Write protect option for the Flash EPROM<br>Embedded security (TPM 1.2)<br>Control of all USB interfaces<br>External USB ports can be disabled separately<br>Control of external interfaces |
| **User Security** | User and supervisor BIOS password<br>Hard disk password<br>Access protection via external SmartCard reader (optional) |
| **Miscellaneous** | |
| | Thermal management<br>Extended lifetime |
| **Serviceability** | |
| **Packaging information** | |
| **Packaging dimension (mm)** | 395 x 198 x 284 mm |
| **Packaging dimension (inch)** | 15.55 x 7.8 x 11.18 inch |
| **Max. quantity / pallet** | 84 |
| **Material - Weight (g) Carton** | 670 g |
| **Material - Weight (lbs) Carton** | 1.48 lbs |
| **Material - Weight (g) EPS / PS** | 10 g |
| **Material - Weight (lbs) EPS / PS** | 0.02 lbs |
| **Material - Weight (g) PE** | 125 g |
| **Material - Weight (lbs) PE** | 0.28 lbs |
| **Packaging notes** | If keyboard is inlcuded in packaging: 1.)packaging dimension is increasing to: 500 x 208 x 290mm / (19.69 x 8.19 x 11.42 inch); 2.) material weight of carton will increase to 880g; 3.) max. quantity/pallet = 56; printed user documentation is bleached in chlorin free process; |
| **Warranty** | |
| **Standard Warranty** | 3 years (depending on country) |
| **Service level** | Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 2 years material warranty) |
| **Warranty Terms & Conditions** | http://support.ts.fujitsu.com/warranty |
| **Product Support Services - the perfect extension** | |
| **Recommended Service** | 9x5, Response Time: Next Business Day |

| Warranty | |
|---|---|
| **Spare Parts availability** | 5 years after end of product life |
| **Service Weblink** | http://www.fujitsu.com/fts/services/support |

# Recommended Accessories

| | | | |
|---|---|---|---|
| **USB 3.0 Port Replicator PR08** | | The Fujitsu USB 3.0 Port Replicator PR08 is the perfect solution for hot-desk environments. It connects your notebook to all of your peripherals with a single USB 3.0 plug. This device can generate additional DisplayPort and DVI performance, enabling your system to run up to four screens separately at your workplace, i.e. a notebook, the notebook's external graphics, and the two additional graphic displays from your PR08. This makes the PR08 the optimal device for shared desktop solutions. A system-independent second network further increases your computing possibilities. On top of all this, the device provides audio and USB-hub functionality for even more desktop enhancement. | Order Code: S26391-F6007-L400 |
| **Display B22W-7 LED** | | The FUJITSU Display B22W-7 LED offers best ergonomics and usability for intensive office use with a 4-in-1 stand. | Order Code: S26361-K1472-V140 |
| **Display B24W-7 LED** | | The FUJITSU B24W-7 LED Display with excellent ergonomics makes intensive office work extremely comfortable. This highly reliable display offers superb usability and power-saving features to help reduce your labor as well as energy costs. With wide viewing angle technology, flexible connectivity, and easy manageability, the FUJITSU B24W-7 LED Display can help you improve productivity. | Order Code: S26361-K1497-V140 |
| **SOUNDSYSTEM DS E2000 Air** | | The new more powerful SOUNDSYSTEM DS E2000 Air gives you impressive, well-balanced sound throughout the frequency band. It is an unbeatable USB speaker set with a surprisingly small form factor. The robust satellite speakers are decorated with a deluxe piano finish and the base is adorned with warm ambient lighting. | Order Code: S26391-F7128-L600 |
| **UC&C USB Headset Stereo H650e** | | The UC&C USB Headset Stereo H650e is the ultimate in style and functionality. Long, uncomfortable work calls are a thing of the past thanks to the cushioned ear pads and crystal clear sound. Adjustable headband and microphone provides the perfect fit for everyone. Optimized for Microsoft® Lync™ the headset displays a red 'in-call' LED to let your co-workers know when you're available, thus helping to boost office productivity. | Order Code: S26391-F7139-L10 |
| **Busylight UC Lync** | | Boost communication and productivity in the office with the Busylight. The genius of this device is that it both advertises your present working state and promotes the use of Lync, making your office more efficient. Perfect for the work environment in open-plan offices, the Busylight makes users feel comfortable with Lync's features and eases the transition from traditional office internal telephone systems. | Order Code: S26391-F7139-L30 |

# More information

## Fujitsu OPTIMIZATION Services

In addition to FUJITSU ESPRIMO Q920, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

**Fujitsu Portfolio**
Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

**Computing Products**
www.fujitsu.com/global/products/computing/

**Software**
www.fujitsu.com/software/

## More information

Learn more about FUJITSU ESPRIMO Q920, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/ESPRIMO

## Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT.
Please find further information at http://www.fujitsu.com/global/about/environment

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